

Title (en)

Electrical motor with self-protection against overheating

Title (de)

Elektromotor mit Selbstschutzeinrichtung gegen Überhitzung

Title (fr)

Moteur électrique comprenant une auto-protection contre la surchauffe

Publication

EP 1073174 B1 20041013 (DE)

Application

EP 00112475 A 20000610

Priority

DE 29913196 U 19990728

Abstract (en)

[origin: EP1073174A2] The self protection unit (1) has a sensor unit (2) for determining the temperature in the motor and the surrounding region. There is a regulating unit (4) connected with the sensor unit (2) and the control. The regulating unit (4) respectively compares at least one sensor signal as a temperature actual value (i1, i2, i3, i4) with a specified associated limit value (G1, G2, G3, G4). If the temperature exceeds the predetermined value, the supply to the motor winding is controlled. By alteration of the electric power or the motor speed, the temperature is regulated.

IPC 1-7

H02H 5/04; **H02H 7/08**

IPC 8 full level

H02H 5/04 (2006.01); **H02H 7/08** (2006.01); **H02H 7/085** (2006.01); **H02P 29/02** (2016.01)

CPC (source: EP)

H02H 7/0852 (2013.01); **H02H 7/0858** (2013.01); **H02P 29/02** (2013.01)

Cited by

US2017167492A1; JP2007517642A; AU2004313479B2; JP4874809B2; EP1699287A4; CN106715918A; CN109075563A; RU2713457C1; WO2006018393A1; WO2016009380A1; WO2005067697A1; US7508637B2

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

EP 1073174 A2 20010131; **EP 1073174 A3 20030326**; **EP 1073174 B1 20041013**; AT E279803 T1 20041015; DE 29913196 U1 20001207; DE 50008198 D1 20041118

DOCDB simple family (application)

EP 00112475 A 20000610; AT 00112475 T 20000610; DE 29913196 U 19990728; DE 50008198 T 20000610